Aim:

Write a program to display the fibonacci series up to the given number of terms using recursion process.

```
The fibonacci series is 0 1 1 2 3 5 8 13 21 34......
```

number of terms using Recursion

At the time of execution, the program should print the message on the console as:

```
Enter value of n :
```

For example, if the user gives the input as:

```
Enter value of n : 6
```

then the program should **print** the result as:

```
The fibonacci series of 6 terms are : 0 1 1 2 3 5
```

Note: Write the recursive function **fib()** in Program908a.c.

Source Code:

Program908.c

```
#include <stdio.h>
#include "Program908a.c"

void main() {
    int n, i;
    printf("Enter value of n : ");
    scanf("%d", &n);
    printf("The fibonacci series of %d terms are : ", n);
    for (i = 0; i < n; i++) {
        printf(" %d ", fib(i));
    }
}</pre>
```

Program908a.c

```
int fib(int n);
int fib(int n)
{
   if(n == 0)
   return 0;
   else if( n == 1)
   return 1;
   else
   return (fib(n-1) + fib(n-2));
}
```

Test Case - 1
User Output
Enter value of n : 4
The fibonacci series of 4 terms are : 0 1 1 2

Test Case - 2	
User Output	
Enter value of n : 8	
The fibonacci series of 8 terms are : 0 1 1 2 3 5 8 13	

Test Case - 3							
User Output							
Enter value of n : 14							
The fibonacci series of 14 terms are : 0 1 1 2 3 5	8	13	21	34	55	89	14

Test Case - 4
User Output
Enter value of n : 3
The fibonacci series of 3 terms are : 0 1 1